



Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-01/752c/SAND-Gratation/2015-16 : 02.02.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

* Agency : Technical Manager (West), KRIDL, Bangalore.

* Name of Work : Improvements to Main & Cross Road at Kodandaramaswamy temple back side area & Kammagondanahalli in Ward No.12, BBMP, Bangalore.

Reference : EE/DD/WO/46/2014-15 Dated: 25.06.2014

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 31.01.2015

Date of Testing : 02.02.2015

Total Wt. of Aggregates in grams 1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.50	90-100	90-100	90-100	95-100
2.36	73.40	60-95	75-100	85-100	95-100
1.18	45.40	30-70	55-90	75-100	90-100
600 Micron	26.40	15-34	35-59	60-79	80-100
300 Micron	13.90	5-20	8-30	12-40	15-50
150 Micron	4.90	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

VISHWANATH .C
Quality Manager



Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-//SAND-Gradation/2015-16 : 06.02.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency** : Technical Manager (West), KRIDL, Bangalore.
*** Name of Work** : Improvements to Main & Cross Road at Kodandaramaswamy temple back side area & Kammagondanahalli in Ward No.12, BBMP, Bangalore.

Reference : EE/DD/WO/46/2014-15 Dated: 25.06.2014

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 31.01.2015

Date of Testing : 06.02.2015

Total Wt. of Aggregates in gms : 1000



Is Sieve Size in mm	Cumulative Weight Passing in %	Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.00	90-100	90-100	90-100	95-100
2.36	76.50	60-95	75-100	85-100	95-100
1.18	50.50	30-70	55-90	75-100	90-100
600 Micron	32.00	15-34	35-59	60-79	80-100
300 Micron	16.50	5-20	8-30	12-40	15-50
150 Micron	5.00	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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VISHWANATH.C
Quality Manager

ಇ.ಎಂ.ರೈ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು
ಶಿಕ್ಷಣಿ ಉಪವ್ಯೂಹ, ವಾಸವೇಶ್ವರನಗರ
6/2

**QUALITY CONTROL REPORTS FOR
WET MIX MACADAM (WMM)**



Job No.: CTCE/BBMP/W.No.12/KRIDL/WMM/Gradation/2014-15

GRADATION FOR WMM

MORTH TABLE-400-11

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, Bangalore.

Name of Work : Improvements to Main & Cross Road at Kodandaramaswamy temple back side area & Kamragondanahalli in Ward No.12, BBMP, Bangalore.

Reference : BE/DD/WO/46/2014-15 Dated: 25.06.2014

Date of Testing : 11.02.2015

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): 7825

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	135	135	1.7	98.3	95-100
22.4	2510	2645	33.8	66.2	60-80
11.2	1210	3855	49.3	50.7	40-60
4.75	1015	4870	62.2	37.8	25-40
2.36	995	5865	75.0	25.0	15-30
0.600	870	6735	86.1	13.9	8-22
0.075	770	7505	95.9	4.1	0-8

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[Signature]

M/s. Civil-Tech Consultants & Engineers

23/14, 7th Cross, 3rd Stage, 4th Block, Shaktigamapathinagara,

Basaveshwaranagar, Bangalore-560079.

ಇವುಗಳ ಮೇಲೆ ಪರೀಕ್ಷೆ ಮಾಡಿ ಫಲವನ್ನು

ಬಿಟ್ಟುಕೊಡುವುದು, ಇದರಲ್ಲಿ ದೋಷ

ಇಲ್ಲವೆಂದು ದೃಢೀಕರಿಸುವುದು.

ಇವುಗಳ ಮೇಲೆ ಪರೀಕ್ಷೆ ಮಾಡಿ ಫಲವನ್ನು



Job No.: CTCE/BBMP/W.No.12/KRIDL/WMM/Gratation/2014-15

GRADATION FOR WMM
MORTH TABLE-400-11

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, Bangalore.

Name of Work : Improvements to Main & Cross Road at Kodandaramaswamy temple back side area & Kamnagondanahalli in Ward No.12, BBMP, Bangalore.

Reference : EE/DD/WO/46/2014-15 Dated: 25.06.2014

Date of Testing : 11.02.2015

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): 8080

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	235	235	2.9	97.1	95-100
22.4	2510	2745	34.0	66.0	60-80
11.2	1310	4055	50.2	49.8	40-60
4.75	1080	5135	63.6	36.4	25-40
2.36	985	6120	75.7	24.3	15-30
0.600	865	6985	86.4	13.6	8-22
0.075	760	7745	95.9	4.1	0-8

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M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakhigamapathinagara,
Basaveshwaranagar,
Bangalore-560079.

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakhigamapathinagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com / info@civiltechconsultants.com
E-mail : vishwanath.a@civiltechconsultants.com

Handwritten notes and signatures in the top right corner, including a signature and the date 11/2.

ಶಹಾಬ್ ಕಾಂತ್ ಅಪರಾಧಿ ಅಧ್ಯಯನಕ್ಕೆ
ಬೆಂಚ್ ಸಾಕ್ಷಿಗಳಿಗೆ, ಹಾಜರಿಗೆ ಬಂದು
ಬೆಂಚ್ ಛಾಂಚ್ ಮುಕಾಬಲೆ ಪಾಲ್ಗೊಳ್ಳುತ್ತಾ
ಬೆಂಚ್ ಛಾಂಚ್ ಮುಕಾಬಲೆ ಪಾಲ್ಗೊಳ್ಳುತ್ತಾ
ಬೆಂಚ್ ಛಾಂಚ್ ಮುಕಾಬಲೆ ಪಾಲ್ಗೊಳ್ಳುತ್ತಾ

M/s. Civil-Tech Consultants & Engineers
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Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	130	130	1.7	98.3	95-100
22.4	2455	2585	34.2	65.8	60-80
11.2	1250	3835	50.8	49.2	40-60
4.75	990	4825	63.9	36.1	25-40
2.36	855	5680	75.2	24.8	15-30
0.600	815	6495	86.0	14.0	8-22
0.075	710	7205	95.4	4.6	0-8

Sample Location : WMM Mix Plant

Material : WMM

Date of Testing : 11.02.2015

Reference : EE/DD/WO/46/2014-15 Dated: 25.06.2014

Name of Work : Improvements to Main & Cross Road at Kodandaratnaswamy temple back side area & Kammagondanahalli in Ward No.12, BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, Bangalore.

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

NORTH TABLE-400-11

GRADUATION FOR WMM

11.02.2015

Job No.: CTCE/BBMP/W.No.12/KRIDL/WMM/Gradation/2014-15

CIVIL-TECH CONSULTANTS AND ENGINEERS
Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005





Job No.: CTCE/BBMP/W.No.12/KRIDL/WM/Gradation/2014-15

GRADATION FOR WMM

MORTH TABLE-400-11



11.02.2015

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, Bangalore.

Name of Work : Improvements to Main & Cross Road at Kodandaramaswamy temple back side area & Kammagondanahalli in Ward No.12, BBMP, Bangalore.

Reference : EE/DD/WO/46/2014-15 Dated: 25.06.2014

Date of Testing : 11.02.2015

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): 8270

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	260	260	3.1	96.9	95-100
22.4	2510	2770	33.5	66.5	60-80
11.2	1300	4070	49.2	50.8	40-60
4.75	1085	5155	62.3	37.7	25-40
2.36	995	6150	74.4	25.6	15-30
0.600	890	7040	85.1	14.9	8-22
0.075	780	7820	94.6	5.4	0-8

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(Signature)

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 # 23/14, 7th Cross, 3rd Stage,
 4th Block, Shaktigaganapathinagara,
 Basaveshwaranagar,
 Bangalore-560079.



ಕರ್ನಾಟಕ ರಾಜ್ಯ ಸರ್ಕಾರದ
 ಸಾರ್ವಜನಿಕ ಕಾರ್ಯದ ಇಲಾಖೆ
 ಸಾರ್ವಜನಿಕ ಕಾರ್ಯದ ಇಲಾಖೆ
 ಸಾರ್ವಜನಿಕ ಕಾರ್ಯದ ಇಲಾಖೆ
 ಸಾರ್ವಜನಿಕ ಕಾರ್ಯದ ಇಲಾಖೆ



Job No.: CTCE/BBMP/W.No.12/KRIDL/WMM/Gradation/2014-15

11.02.2015

GRADATION FOR WMM
MORTH TABLE-400-11



Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Technical Manager (West), KRIDL, Bangalore.

Name of Work : Improvements to Main & Cross Road at Kodandaramaswamy temple back side area & Kamragondanahalli in Ward No.12, BBMP, Bangalore.

Reference : EE/DD/WO/46/2014-15 Dated: 25.06.2014

Date of Testing : 11.02.2015

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): 8090

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	330	330	4.1	95.9	95-100
22.4	2585	2915	36.0	64.0	60-80
11.2	1210	4125	51.0	49.0	40-60
4.75	1095	5220	64.5	35.5	25-40
2.36	995	6215	76.8	23.2	15-30
0.600	835	7050	87.1	12.9	8-22
0.075	780	7830	96.8	3.2	0-8

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ಶಾಸ್ತ್ರೀಯ ಪರೀಕ್ಷೆಗಳನ್ನು
ಮಾಡುವುದು, ಪರೀಕ್ಷೆ
ಮಾಡುವುದು, ಪರೀಕ್ಷೆ
ಮಾಡುವುದು, ಪರೀಕ್ಷೆ
ಮಾಡುವುದು, ಪರೀಕ್ಷೆ



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Agency : Technical Manager (West), KRIDL, Bangalore.

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Reference : EE/DD/WO/46/2014-15 Dated: 25.06.2014

Date of Testing : 11.02.2015

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): 8435

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	355	355	4.2	95.8	95-100
22.4	2615	2970	35.2	64.8	60-80
11.2	1210	4180	49.6	50.4	40-60
4.75	1185	5365	63.6	36.4	25-40
2.36	990	6355	75.3	24.7	15-30
0.600	885	7240	85.8	14.2	8-22
0.075	840	8080	95.8	4.2	0-8

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Basaveshwaranagar,
Bangalore-560079.

E-mail : vishwanath.ia@civilttechconsultants.com / info@civilttechconsultants.com
Tele Fax : 23223227, Website : www.civilttechconsultants.com
#23/14, 7th Cross, 3rd Stage, 4th Block, Shakti Ganapathi Nagar, Basaveshwaranagar, Bangalore-79.

Handwritten signature and initials.





Job No.: CTCE/BBMP/W.No.12/KRIDL/WMM/Gradation/2014-15



GRADATION FOR WMM

MORTH TABLE-400-11

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, Bangalore.

Name of Work : Improvements to Main & Cross Road at Kodandaramaswamy temple back side area & Kamnagondanahalli in Ward No.12, BBMP, Bangalore.

Reference : EE/DD/WO/46/2014-15 Dated: 25.06.2014

Date of Testing : 11.02.2015

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): 7740

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	250	250	3.2	96.8	95-100
22.4	2485	2735	35.3	64.7	60-80
11.2	1185	3920	50.6	49.4	40-60
4.75	1080	5000	64.6	35.4	25-40
2.36	985	5985	77.3	22.7	15-30
0.600	865	6850	88.5	11.5	8-22
0.075	775	7625	98.5	1.5	0-8

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Basaveshwaranagar,
Bangalore-560079.

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Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.la@civiltechconsultants.com / info@civiltechconsultants.com



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GRADATION FOR WMM
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Agency : Technical Manager (West), KRIDL, Bangalore.

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Reference : EE/DD/WO/46/2014-15 Dated: 25.06.2014

Date of Testing : 11.02.2015

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): 8070

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	325	325	4.0	96.0	95-100
22.4	2515	2840	35.2	64.8	60-80
11.2	1245	4085	50.6	49.4	40-60
4.75	1050	5135	63.6	36.4	25-40
2.36	955	6090	75.5	24.5	15-30
0.600	855	6945	86.1	13.9	8-22
0.075	770	7715	95.6	4.4	0-8

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Basaveshwaranagar,
Bangalore-560079,

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakti Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civilitechconsultants.com
E-mail : vishwanath.la@civilitechconsultants.com / info@civilitechconsultants.com

V A



Customer	Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency	Technical Manager (West), KRIDL, Bangalore.
Name of the Work	Improvements to Main & Cross Road at Kodandaramaswamy temple back side area & Kamnagondanahalli in Ward No.12, BBMP, Bangalore.
Reference	EE/DD/WO/46/2014-15 Dated: 25.06.2014
Source / Location	WMM Plant
Type of Mix	Wet Mix macadam
Date of Testing	11.02.2015

IS: 2386 Part IV

Job No.: CTCE/BBNP/W.No.12/KRIDL/WNM/IV/2014-15

